

## MESSAGE QUEUE SERVER SYSTEM

## ABSTRACT OF THE DISCLOSURE

A message queue server emulates a computer peripheral that not only supports communication between two mainframes, but also provides a gateway to open systems computers, networks, and other similar message queue servers. The message queue server provides protocol-to-protocol conversion from mainframes to today's computing systems in a manner that does not require businesses that own the mainframes to rewrite legacy applications to share data with other mainframes and open systems. The message queue server emulates a mainframe peripheral coupled to a first mainframe having a first protocol. The system includes digital storage to temporarily store information from the first mainframe. The system includes at least one manager that (i) coordinates the transfer of the information of the first protocol between the mainframe peripheral emulator and the digital storage and (ii) coordinates transfer of the information between the digital storage and (a) a second mainframe having a second protocol or (b) a computer network having a third protocol. Preferably, the message queue server emulates a tape drive and arranges the stored messages in a queue. Optionally, the message queue server manages the message queues as a function of information usually found in a standard tape label.

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